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Cotton Fiber and Processing Test Results

CROP of

1976



Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38122 December 3, 1976

These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season.^{1/} These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

^{1/} Summary of Cotton Fiber and Processing Test Results, Crop of 1975, USDA, AMS, Cotton Division, May 1976.

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1976

Discussion of Test Results

Southwestern short staple cottons tested through November 26 this season are slightly shorter and less uniform than a year earlier, according to the Cotton Division, Agricultural Marketing Service, USDA. Fibers are coarser and a little weaker than last season. Shirley Analyzer nonlint content and picker and card waste are both higher than a year earlier. Yarns spun from these samples are weaker than a year ago and have lower appearance grades. The average spinning potential yarn number is lower.

The U.S. average fiber length of medium staple samples is shorter than a year ago. Zero gage fiber strength is slightly higher. Shirley Analyzer nonlint content is lower while picker and card waste is higher. Yarns spun from these samples show slightly stronger yarn skein strength with fewer yarn imperfections. The spinning potential yarn number is a little lower than it was last year.

Medium staple samples tested from the Southeast have about the same length and uniformity as a year earlier. Fibers are coarser and a little stronger. Shirley Analyzer nonlint content is lower, while picker and card waste is higher than a year ago. Yarns spun from these samples are stronger and have higher appearance grades. Imperfections are fewer. Spinning potential is higher.

Medium staple samples tested from the South Central states are shorter than a year ago. Fibers are considerably stronger at zero gage tests than a year earlier. Shirley Analyzer nonlint content is lower, while picker and card waste is higher. Yarns spun from these samples are stronger, with fewer yarn imperfections. Spinning potential is lower.

Southwestern medium staple samples tested have about the same fiber characteristics as a year ago at this time. Picker and card waste is higher. Yarns spun from these samples are stronger. These yarns also have higher appearance grades and fewer imperfections.

Medium staple samples tested from the West have the same fiber length as a year ago. Fibers are weaker at both zero gage and 1/8" gage tests. Picker and card waste is higher than last season. Yarns spun from these samples are weaker and have lower appearance grades this season. Spinning potential number is lower.

Long staple samples from the Southeastern states show fibers to be longer and coarser than a year ago. Fiber strength is higher. Shirley Analyzer nonlint content is lower. Both picker and card waste and comber waste are lower than a year ago. Yarns spun from these samples are stronger for both carded and combed yarns. Appearance grades average slightly lower for carded yarns and higher for combed yarns. Both carded and combed yarns show fewer imperfections. Spinning potential yarn number is much higher than last season.

Long staple samples from the South Central states have the same Fibrograph length and are finer and stronger. Shirley Analyzer nonlint content and picker and card waste are both lower than last season. Comber waste, however, is higher. Yarns spun from these samples are stronger than last year. Appearance grades are lower. Imperfections are fewer. The spinning potential yarn number is lower.

American Pima samples tested through November 26 this season have longer and more uniform fibers than last season. Pima cottons are coarser and stronger than a year ago. Both picker and card waste and comber waste are lower. Yarn strength and appearance are about the same as a year earlier.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through November 26, 1976 1/

Staple group Area, and Crop year	Lots tested	Fiber test results							Processing test results					
		Fibrograph		Mike fine- ness	Fiber strength		S A nonlint	P & C waste	Yarn quality			Spin. Potent.		
		2.5% span	50/2.5 unif.		Pct.	Rdg.			Mpsi	G/tex	Skein str.		Appearance	Imperf- ections
				Inches			Pct.	No.						
												Yarn No.		
22s Carded Yarn														
Short Staple: Southwest	16	.99	45	4.3	89	22	3.1	5.9	101	117	14	44		
	15	.97	44	4.5	85	20	3.4	7.3	84	110	14	35		
Medium Staple: Southeast	25	1.08	45	4.2	84	22	4.0	6.0	98	96	27	53		
	23	1.08	46	4.7	86	23	3.2	6.2	106	101	20	55		
South Central	88	1.10	45	4.4	85	23	3.1	5.4	104	102	20	58		
	80	1.08	44	4.3	89	23	2.9	6.1	108	100	16	55		
Southwest	23	1.07	44	4.1	82	22	3.2	5.1	102	95	26	57		
	27	1.07	45	4.1	81	22	3.2	6.3	104	97	20	57		
West	35	1.12	46	4.2	93	27	2.2	5.0	126	93	23	70		
	24	1.12	45	4.1	89	25	2.3	5.5	121	90	20	67		
U.S. Average	171	1.10	45	4.3	86	23	3.1	5.4	107	98	23	59		
	154	1.08	45	4.3	87	23	2.7	6.0	109	98	18	57		
Significant dif- ference 2/		0.02	2	0.2	2	1	0.5	0.5	4(22s)	5	2	3		

1/ Based on a limited number of samples of modal quality
2/ Minimum differences considered to be significant for comparisons in this table.

Table 1.--Cotton: Averages of fiber and processing tests from selected gin points in the United States through November 26, 1976
1/ (Continued)

Staple group, Area, and Crop year	Lots	Fiber Test Results					Processing Test Results						
		Length		Mike	Strength		SA Non- lint	P&C Waste	Comber Waste	Yarn Quality			SPY
		Span	Unif		Zero	1/8" gage				Strength carded	Appearance combed	Imprfctns card comb	
No.	In.	Pct.	Rdg.	Mpsi	G/tx	Pct.	Pct.	Pct.	Lbs.	Indx	Indx	No.	No.
22s Carded & Combed Yarn													
Long Staple:													
Southeast													
1975	9	1.11	43	4.2	85	22	3.6	9.5	18.7	92	116	110	12
1976	6	1.16	45	4.4	87	26	2.8	6.2	15.8	119	140	107	8
South Central													
1975	5	1.12	43	4.0	88	23	3.9	9.1	17.9	107	127	108	21
1976	2	1.12	42	3.8	91	26	3.4	6.6	20.8	111	138	100	20
Extra Long Staple:													
West													
1975	2	1.44	32	3.6	100	33	2.4	7.2	17.8	62	110	110	2
1976	3	1.46	29	3.8	103	34	2.5	6.0	15.9	63	110	110	2
Significant Difference 2/													
0.02 2 0.2 2 1 0.5 0.5 0.5 4(22s) 2(50s) 5 5 2 2 3													

1/ Based on a limited number of samples of modal quality
2/ Minimum differences considered to be significant for comparisons in this table.

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1975

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade	Name & Code	Stple	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-lint		Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfect'ns		Spin. Potential
				2.5% span	Unif		Zero Gage	1/8" Gage		Pct	Pct	Gra	Yel		8s or 74 tx	22sor 27 tx	8s or 74 tx	22s or 27 tx	8s or 74 tx	22sor 27 tx	8s or 74 tx	22sor 27 tx	
SOUTHWEST AREA																							
CENTRAL TEXAS																							
BRANDON																							
3	SLM	LT SP	42	30	0.91	44	3.8	84	LANKART	611	6.4	3.6	3	3	8.0	250	75	5.3	120	110	22	16	29
																100 PERCENT							
ITALY																							
3	SLM	LT SP	42	30	0.95	43	4.3	84	LANKART	57	6.0	3.2	3	4	6.8	249	74	5.2	120	100	18	15	28
																100 PERCENT							
ITASCA																							
3	SLM	LT SP	42	30	0.94	44	5.0	92	LANKART	LX571	6.0	3.8	3	3	7.3	264	82	4.9	130	110	21	12	32
																100 PERCENT							
WACC																							
2	LM	LT SP	52	33	1.06	45	4.6	84	LANKART	LX571	6.4	5.0	3	3	8.3	293	96	5.4	120	110	27	14	45
																100 PERCENT							
NORTHWEST TEXAS																							
LCKCKNEY																							
1	MID	LT SP	32	30	0.90	47	4.8	89	MORCOT	M70	6.1	2.2	2	4	5.9	279	87	5.7	120	120	14	10	33
																80 PERCENT							

1/ Reduced from 42 because of bark

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1975

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade	Stple	32s	Digital Fibrograph		Mike	Fiber Strength		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Potential	
				2.5% span	Unif.		Zero	1/8" Gage			Gra	Yel		27 tx	50s or 12 tx	27 tx	50s or 12 tx	27 tx	50s or 12 tx	27 tx	50s or 12 tx		27 tx
SOUTHEAST AREA																							
ALABAMA																							
BELLE MINA																							
2	SLM	LT SP	42	33	1.03	47	4.8	79	21	7.6	3.9	2	3	7.0	104	33	6.5	4.8	100	80	25	17	51
HAZEL GREEN																							
2	SLM	LT SP	42	33	1.03	45	4.5	80	22	7.7	3.0	2	4	6.7	90	28	5.4	3.8	110	80	17	12	60
MERIDIANVILLE																							
1	SLM		41	34	1.02	46	4.8	92	23	6.3	3.8	2	3	6.1	92	26	4.9	3.5	100	80	19	13	43
SCOTTSBORO																							
1	MID		31	35	1.13	46	4.2	85	23	7.7	1.6	1	3	4.3	113	38	6.7	4.9	100	80	11	9	66
GEORGIA																							
ALLEN TOWN																							
2	LM		51	35	1.07	44	4.8	85	23	6.0	3.2	3	2	7.0	97	29	5.3	3.8	100	70	18	17	44
BOSTWICK																							
2	LM		51	35	1.04	47	4.4	87	24	6.6	4.5	3	3	5.7	111	37	5.8	4.2	120	90	11	10	62
SHELLMAN																							
1	SLM		41	34	1.13	45	4.7	80	22	7.6	2.7	2	3	5.2	97	31	6.1	4.2	100	80	15	10	54
SOCIAL CIRCLE																							
1	SLM		41	35	1.11	46	4.4	84	24	6.4	3.0	2	3	5.8	116	39	6.3	4.7	100	80	19	12	63
NORTH CAROLINA																							
LAURINBURG																							
2	SLM		41	36	1.12	45	4.6	85	24	6.3	4.9	2	2	6.4	114	39	5.3	4.4	90	70	27	18	65
SPELBY																							
1	SLM	LT SP	42	34	1.03	47	4.8	91	23	6.5	2.6	3	4	6.0	97	29	5.2	3.6	100	90	8	10	51
SOUTH CAROLINA																							
BLACKVILLE																							
1	MID	LT SP	32	34	1.08	46	5.2	92	23	5.9	2.4	2	3	4.9	106	35	5.6	4.2	100	80	14	11	55
MAYESVILLE																							
2	SLM		41	35	1.12	47	4.8	89	23	6.2	2.8	2	3	5.5	108	35	5.7	4.4	100	80	25	19	55

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1975--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns											
No	Grade	Name & Code	Stple	32s		Mike	Fiber		Elon-gat'n 1/8"	S.A. Non-Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprct'ns		Spin. Potent-ial			
				In	Pct		Zero	Gage			Gra	Yel		Lbs	Pct	Lbs	Pct	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx		No	No	
SOUTH CENTRAL AREA																									
ARKANSAS																									
3	LM	51	35	1.07	43	3.4	85	23	6.6	6.1	2	2	7.6	100 PERCENT	102	33	5.5	4.2	100	80	16	12	50		
KEISER																									
3	SLM	41	34	1.09	42	3.6	86	23	7.8	2.5	2	2	6.1	100 PERCENT	111	35	6.4	4.8	100	70	17	12	67		
CSCEOLA																									
2	SLM	41	34	1.03	41	3.2	92	22	5.5	3.8	1	3	8.0	100 PERCENT	92	29	5.3	3.8	80	60	28	23	43		
WYNN																									
2	MID	31	34	1.08	45	4.2	89	24	8.0	3.3	1	2	6.4	100 PERCENT	109	36	6.4	4.3	100	90	15	14	54		
LOUISIANA																									
2	MID	31	35	1.14	44	4.1	92	25	7.6	2.2	0	2	4.9	100 PERCENT	112	37	6.9	4.8	100	70	12	12	62		
LAKE PROVIDENCE																									
2	SLM	41	35	1.11	45	4.4	91	24	7.6	4.0	1	2	5.6	100 PERCENT	114	38	6.4	4.8	100	80	13	10	61		
LAKE PROVIDENCE																									
2	SLM	41	34	1.07	44	5.1	90	23	6.0	3.2	1	2	6.0	100 PERCENT	104	32	5.4	3.8	100	80	21	13	50		
CAK RIDGE																									
2	SLM	41	34	1.09	46	5.1	94	23	6.6	3.3	1	2	6.1	100 PERCENT	109	35	5.6	4.2	110	90	12	11	57		
CPELOUSAS																									
2	SLM	41	34	1.10	43	4.0	80	22	7.8	1.9	0	2	4.8	76 PERCENT	104	34	6.7	4.9	100	80	10	10	57		
SICILY ISLAND																									
3	SLM	41	34	1.07	45	4.9	93	22	6.2	3.1	1	2	6.4	100 PERCENT	97	28	5.3	3.5	120	90	11	10	47		
MISSISSIPPI																									
2	SLM	41	34	1.07	44	4.4	95	23	5.9	4.6	2	2	5.5	100 PERCENT	106	34	5.4	3.8	110	90	10	5	52		
GLENORA																									
2	SLM	41	35	1.07	45	4.2	93	23	5.3	2.4	1	2	6.9	100 PERCENT	103	30	5.4	3.6	100	80	13	10	47		
GREENVILLE																									
2	SLM PLUS	40	35	1.14	44	4.2	87	25	7.7	2.8	0	2	5.1	100 PERCENT	120	40	6.8	5.2	90	80	14	11	67		

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1975--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results						Processing Test Results - Carded Yarns													
No	Grade	Style	32s	Digital Fibrograph	Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten- tial		
						Zero Gage	1/8" Gage			Gra	Yel		27 tx 12 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx	22s or 27 tx	50s or 12 tx			
SOUTH CENTRAL AREA--(Continued)																							
MISSISSIPPI--(Continued)																							
FCLLANDALE																							
2	LM	51	35	1.08	43	4.0	89	23	7.4	4.5	2	1	6.1	100 PERCENT	117	38	6.2	4.6	90	70	24	17	64
INCINOLA																							
3	LM	51	34	1.01	45	4.2	91	23	6.0	4.4	3	2	6.3	100 PERCENT	106	33	5.7	3.9	110	80	15	13	57
LYCN																							
2	SLM	41	34	1.03	43	4.8	89	22	6.3	3.7	2	2	6.6	100 PERCENT	90	28	4.9	3.4	110	90	11	9	43
3	LM	51	35	1.05	43	4.3	90	23	6.1	2.8	2	1	7.0	100 PERCENT	96	28	5.4	3.5	100	80	14	11	47
PANTHER BURN																							
2	SLM	41	35	1.14	43	3.8	85	23	7.7	3.3	1	1	5.7	100 PERCENT	116	38	6.8	5.1	90	70	22	17	64
SCCTT																							
3	SLM	41	35	1.11	44	4.0	84	25	7.7	2.9	2	1	6.1	100 PERCENT	121	39	6.6	4.7	100	80	16	14	69
TRIBBETT																							
2	SLM	41	34	1.06	45	4.7	92	22	4.9	2.9	2	3	8.3	100 PERCENT	99	32	5.1	3.5	110	90	11	8	51
WATER VALLEY																							
2	SLM	41	33	1.00	42	3.9	85	22	7.6	2.9	1	2	6.4	90 PERCENT	95	28	5.9	4.0	100	70	18	13	42
MISSOURI																							
BELL CITY																							
31	34	1.07	41	3.3	90	23	6.6	2.0	0	2	5.3	100 PERCENT	110	36	6.4	4.4	90	60	21	20	56		
1	MID	34	1.04	42	3.6	86	22	6.5	2.7	2	2	5.9	100 PERCENT	103	31	6.3	4.4	90	70	24	18	52	
2	SLM	41	34	1.04	42	3.6	86	22	6.5	2.7	2	2	5.9	100 PERCENT	103	31	6.3	4.4	90	70	24	18	52
HAYTI																							
41	35	1.10	45	4.0	85	23	6.4	2.0	1	2	5.8	80 PERCENT	108	34	6.0	4.2	100	80	11	11	60		
2	SLM	41	35	1.10	45	4.0	85	23	6.4	2.0	1	2	5.8	80 PERCENT	108	34	6.0	4.2	100	80	11	11	60
TENNESSEE																							
BRADEN																							
41	33	1.04	44	4.0	86	23	8.0	2.6	1	2	5.0	95 PERCENT	107	34	6.3	4.5	100	90	12	8	52		
2	SLM	41	33	1.04	44	4.0	86	23	8.0	2.6	1	2	5.0	95 PERCENT	107	34	6.3	4.5	100	90	12	8	52
CYERSBURG																							
41	34	1.06	45	4.3	85	21	6.6	2.5	1	2	5.3	80 PERCENT	103	32	5.9	4.0	100	80	18	14	50		
1	SLM	41	34	1.06	45	4.3	85	21	6.6	2.5	1	2	5.3	80 PERCENT	103	32	5.9	4.0	100	80	18	14	50

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1975--(Continued)

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Carded Yarns											
Grade & Code		Style	32s	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n	S.A. Non- Lint	Color Raw Stock		P & C Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Poten- tial			
No				2.5% span	In	Pct	Rdg	Mpsi	G/tex	Pct	No	Yel	No	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No			
SOUTHWEST																									
CENTRAL TEXAS																									
AQUILLA																									
3	LM LT SP	52	J/31	1.00	43	3.8	88	21	6.2	4.5	3	3	8.9	100 PERCENT	80	24	5.0	3.4	90	70	26	20	38		
NAVASOTA																									
3	SLM	41	35	1.11	43	3.7	83	24	7.3	2.8	1	1	5.8	95 PERCENT	112	37	6.5	4.9	90	70	20	15	63		
WEST																									
ARIZONA																									
BCWIE																									
1	MID LT SP	32	35	1.06	42	3.7	83	22	7.3	2.4	1	4	5.8	94 PERCENT	95	29	6.4	4.4	90	70	24	21	46		
CASA GRANDE																									
1	SLM	41	36	1.14	44	4.7	82	22	7.9	2.8	1	3	5.8	93 PERCENT	112	37	6.3	4.8	110	90	14	9	62		
ELCY																									
2	SLM	41	35	1.06	42	4.1	86	22	6.6	2.2	2	3	5.2	70 PERCENT	97	29	5.5	3.6	100	70	9	8	49		
GILA BEND																									
1	MID	31	34	1.03	42	5.0	87	22	5.9	1.5	2	4	6.0	93 PERCENT	85	25	4.8	3.5	100	70	12	12	36		
CALIFORNIA																									
ARVIN																									
2	SLM	41	36	1.15	45	3.9	91	25	6.3	2.2	2	3	4.5	100 PERCENT	124	43	6.1	4.6	80	70	21	14	75		
BAKERSFIELD																									
2	SLM	41	35	1.11	45	4.0	92	25	6.6	1.3	1	2	5.6	99 PERCENT	123	42	6.0	4.4	80	70	24	17	72		
BAKERSFIELD																									
2	SLM	41	35	1.11	45	3.4	90	26	6.5	2.4	1	3	5.6	98 PERCENT	125	43	6.2	4.7	80	60	24	18	73		
BUTTCNWILLOW																									
2	MID	31	36	1.13	46	4.0	89	26	6.4	1.4	0	2	4.5	100 PERCENT	132	45	6.4	4.9	100	80	16	12	78		
FIVE PCINTS																									
1	SLM PLUS	40	36	1.10	46	3.8	94	29	6.5	1.8	0	2	3.4	96 PERCENT	147	53	6.4	5.2	90	80	21	15	87		
LCST HILLS																									
1	SLM PLUS	40	36	1.11	45	3.9	95	27	6.3	2.2	0	2	5.4	100 PERCENT	139	50	6.3	4.8	90	70	19	17	77		

1/ Reduced from 42 because of bark

1/ Reduced from 42 because of bark

Table 4 --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1975

Production Area, Classification & Sample Number										Fiber Test Results										Processing Test Results - Carded Yarns									
No	Grade	Name & Code	Stple	Digital Fibrograph		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Comber Waste	Strength		Elongation		Appearance Index		Imprfct'ns		Spin. Potent- ial							
				2.5% span	Unif.		Pct	In			32s	Zero Gage		1/8" Gage	Pct	G/tex	Pct	No	No	Yel	Lbs		Lbs	Pct	Pct	No	No	22s or 27 tx	50s or 12 tx
SOUTHEAST AREA																													
NORTH CAROLINA																													
DUNN																													
41	36	1.14	45			4.5		84	25	7.0	2.0	2	2	6.0		118	42	5.0	110	90	16	10	71						
2	SLM												*	15.8		140	49	5.2	120	100	6	5							
SOUTH CAROLINA																													
HARTSVILLE																													
41	36	1.19	45			4.3		84	26	6.4	3.1	1	2	5.9		121	42	4.7	100	90	20	17	72						
2	SLM												*	15.5		141	51	5.1	110	100	6	6							
SOUTH CENTRAL AREA																													
MISSISSIPPI																													
LAKE CCRMORANT																													
41	35	1.13	43			3.8		91	26	6.1	3.4	2	2	6.6		109	37	3.8	100	80	15	13	59						
2	SLM												*	19.6		136	49	4.5	110	90	8	7							

* Comber Waste and Combed Yarn Data

Table 5 --Cotton, American Pima extra long staple: Quality characteristics by production areas, crop of 1975

Production Area, Classification & Sample Number				Fiber Test Results										Processing Test Results - Combed Yarns									
Grade		Stple	Array Length		Mike	Fiber Strength		Elon- gat'n 1/8"	S.A. Non- Lint	Color Raw Stock		P & C Waste	Comber Waste	Strength		Elongation		Appearance Index		Imprfct'ns			
No	Name & Code		UQL	CV		Zero	1/8" Gage			Gra	Yel			50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx	50s or 12 tx	80s or 7 tx		
			32s	In	Pct	Rdg	Mosi	G/tex	Pct	Pct	No	No	Pct	Pct	Lbs	Lbs	Pct	Pct	No	No	No	No	
WEST AREA																							
ARIZONA																							
SAFFCRO																							
1	3	44	1.49	28	4.0	104	34	7.5	4.6	4	6	6.1	16.3	93 PERCENT	33	5.4	4.5	110	120	1	1		
WEST TEXAS																							
EL PASO																							
1	3	44	1.44	30	3.5	105	33	7.5	1.9	4	6	6.2	16.5	85 PERCENT	32	5.5	4.5	110	110	2	2		
TORNILLO																							
1	3	46	1.45	29	4.0	101	34	7.7	1.1	4	5	5.6	14.8	100 PERCENT	33	5.5	4.4	110	120	2	1		